

METHOD OF DISCHARGING LIQUID MATERIAL AND APPARATUS THEREFOR

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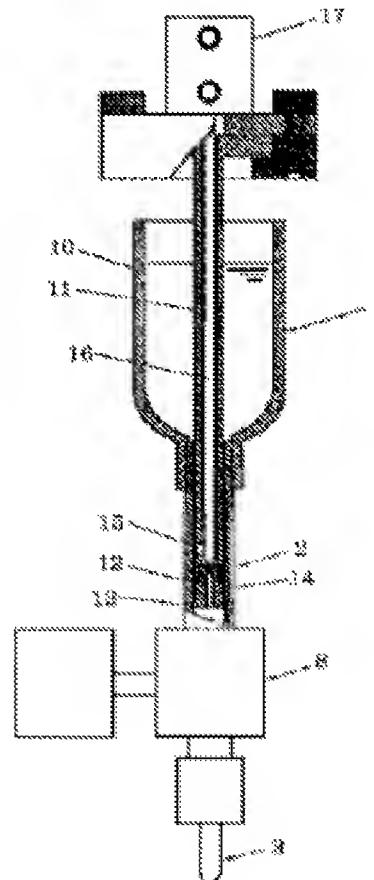
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Abstract of JP2003126750

PROBLEM TO BE SOLVED: To provide a method of precisely discharging, dropping and spraying a liquid material and an apparatus therefor. **SOLUTION:** In the method of discharging the liquid material by pressurizing the liquid material by a plunger being slid in close contact with the inside surface of a liquid feeding passage, with which a nozzle is communicated to a storage part, thereby discharging the liquid material from the nozzle, the plunger is arranged in the mid-way of a space where the liquid material is filled. The space is divided into a nozzle side liquid material part and a storage vessel side liquid material part by a sliding surface of a plunger part being slid in contact with the inside wall surface of the liquid feeding passage, and the liquid material in the nozzle side liquid material part in the divided liquid is discharged by advancing the plunger part in the liquid feeding passage. The liquid material discharge apparatus is composed of the liquid material storage part for storing the liquid material, the nozzle part for discharging the liquid material, the liquid feeding passage with which the storage part is communicated to the nozzle part, the plunger part being slid in close contact with the inside surface of the liquid feeding passage and having a seal part and a plunger moving means for moving the plunger part forward and backward. The apparatus is also provided with the liquid feeding passage with which the nozzle side terminal neighborhood of the liquid feeding passage is communicated to the liquid material storage part neighborhood of the liquid feeding passage 2 or the liquid storage



part, and a liquid sending valve arranged in the liquid feeding passage terminal of the liquid feeding passage 2 or in the mid-way of the liquid feeding passage 2.

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